

## ABSTRACT

When space-time block code signals (103, 104) are to be transmitted, the patterns thereof are changed in accordance with data to be transmitted. This  
5 advantageously allows a good-quality data transmission to be achieved by the space-time block code signals (103, 104). In addition, since data can be transmitted by use of the patterns of the space-time block code signals (103, 104), the data transmission efficiency can be improved.